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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/695,108	10/25/2000	Robert S. Morley	91436-213	1598

33000   7590   06/28/2007
DOCKET CLERK
P.O. DRAWER 800889
DALLAS, TX 75380

EXAMINER
NGUYEN, THANH T

ART UNIT	PAPER NUMBER
2144	

MAIL DATE	DELIVERY MODE
06/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	09/695,108	MORLEY ET AL.
	Examiner	Art Unit
	Tammy T. Nguyen	2144

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *(3)* MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *27 March 2007*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,2,4-38 and 44-47* is/are pending in the application.

4a) Of the above claim(s) *39-43* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☐ Claim(s) *1,2,4-38 and 44-47* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☒ Claim(s) *11-2, 4-38 and 44-47* are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *25 October 2000* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All   b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
   Paper No(s)/Mail Date ____.

4) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

UNITED STATES PATENT AND TRADEMARK OFFICE

Detailed Office Action

1.   This action is in response to the amendment filed on March 27, 2007.

2.   Claims *1-2, 4-38 and 44-47* are pending.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102

that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act

of 1999 (AIPA) and the Intellectual Property and High Technology Technical

Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior

to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4.   Claims 1, 2, 4, 6-9, 11-15, 17-38, and 44 are rejected under 35 U.S.C. 102(e)

as being anticipated by Carter et al. (USPN 6,266,782 – Date of Patent: July 24, 2001,

herein referred to as "Carter").

5.   As to claim 1, Carter the invention substantially as claimed, Carter discloses

including a method of providing device control to a plurality of device components, said

device control enabling interaction of a data network service with said at least one device

component, said method comprising: communicating with said plurality of device

components (Fig.2, video I/O component, audio I/O component); logically associating

said plurality of devices components in an aggregate logical device [see fig.2 (Network

terminal 32); maintaining a logical model of said aggregate logical device, wherein a

state of each device component within said aggregate logical device is maintained [see

fi.g4, col.7, lines 16-62] (*controlling computer application such as user has moved*

mouse, communication established, share mode selected): and providing access to said

data network service by representing said selection of said plurality of device components

[Fig.2, video I/O component, audio I/O component] to said data network service as said

aggregate logical device [Fig.2, col.4, lines 57-64, and col.5, lines 20-45].

6.   As to claim 3, Carter teaches the invention as claimed, wherein said

communicating uses a stimulus message format (col.8, lines 45-55).

7.   As to claim 4, Carter teaches the invention as claimed, wherein said stimulus

message format employs the Megaco Protocol (This protocol is inherent because it just a

standard protocol for all communication in the Internet).

8.   As to claim 6, Carter teaches the invention as claimed, wherein said stimulus

message format employ the H.323 protocol (col.4, lines 65-67).

9.   As to claim 7, Carter teaches the invention as claimed, wherein said maintaining said logical model further comprises dynamically adding a given device component to said logical model (col.7, lines 37-42).

10.   As to claim 8, Carter teaches the invention as claimed, wherein said maintaining further comprises dynamically removing a given device component from said logical model (col.4, lines 40-45).

11.   As to claim 9, Carter teaches the invention as claimed, wherein a server of said data network service is physically associated with at least one of said selection of said at least one device component (Fig.1 communication device component).

12.   As to claim 11, Carter teaches the invention as claimed, wherein said data network service is a first data network service and wherein said providing comprises: executing a first data network service adapter application corresponding to a server of said first data network service (Fig 1 server 17); and logically associating said first data network service adapter application with said aggregate logical device (col.4, lines 40-45).

13.   As to claim 12, Carter teaches the invention as claimed, further comprising: providing access to a second data network service by representing said selection of said plurality of device components (Fig.2, video I/O component, audio I/O component) to said second data network service as said aggregate logical device; and where said providing includes executing a second data network service adapter application corresponding to said server of said second data network service and logically associating

said second data network service adapter application with said aggregate logical device (Fig.2, col.4, lines 57-64, and col.5, lines 20-45).

14.   As to claim 13, Carter teaches the invention as claimed, further comprising routing, as necessary, said communicating with said plurality of device components (Fig.2, video I/O component, audio I/O component) to an appropriate one of either said first data network service adapter application or said second data network service adapter application (Fig.1 show second data network PSTN).

15.   As to claim 14, Carter teaches the invention as claimed, wherein said providing comprises: executing a compound data network service adapter application comprising a logical association of said first data network service adapter application corresponding to said server of said first data network service (Fig.1 Server of first data network server); and a second data network service adapter application corresponding to said server of said second data network service (Fig.1 shows second network service PSTN); and logically associating said compound data network service adapter application with said aggregate logical device(Fig.1 logically connect by server 17).

16.   As to claim 15, Carter teaches the invention as claimed, wherein said server of said first data network service is functionally associated with said server of said second data network service (Fig.1, second network server 17 and PSTN).

17.   As to claim 17, Carter teaches the invention as claimed, further comprising enforcing visibility rules for mediating said communication with said plurality of device components (Fig.2, video I/O component, audio I/O component) as said communication relates to said first data network service adapter application and said second data network service adapter application (Fig.1 shows second network service).

18.   As to claim 19, Carter teaches the invention as claimed, wherein at least one

of said plurality of device components is connected to a data network (Fig1, plurality of

device components is connect to a data network).

19.   As to claim 20, Carter teaches the invention as claimed, further comprising:

logically associating said plurality of device components (Fig.2, video I/O component,

audio I/O component) a second plurality of device components in a second aggregate

logical device (Fig.1); and maintaining a second logical model of said second aggregate

logical device (Fig.1 logical model).

20.   As to claim 21, Carter teaches the invention as claimed, further comprising

providing access to said data network service by representing said plurality of device

components (Fig.2, video I/O component, audio I/O component) second plurality of

device components to said data network service as said second aggregate logical device

(Fig.2, col.4, lines 57-64, and col.5, lines 20-45).

21.   As to claim 22, Carter teaches the invention as claimed, further comprising

providing access to a second data network service by representing said plurality of device

components (Fig.2, video I/O component, audio I/O component) a second plurality of

device components to said second data network service as said second aggregate logical

device (Fig.1 shows second aggregate logical device).

22.   As to claim 23, Carter teaches the invention as claimed, wherein a given

device component of said plurality of device components is a primary network

intelligence for providing device control to further ones of said plurality of device

components (Fig.2 device control 32 of plurality device components).

23.   As to claim 24, Carter teaches the invention as claimed, wherein

communication with said primary network intelligence uses a stimulus message format

(col.8, lines 45-55).

24.   As to claim 25, Carter teaches the invention as claimed, wherein said stimulus

message format employs the Megaco Protocol (This protocol is inherent because it just a

standard protocol for all communication in the Internet).

25.   As to claim 26, Carter teaches the invention as claimed, wherein, upon loss of

communication with said primary network intelligence, said method further comprises:

communicating with said further ones of said plurality of device components (Fig.1

communicating with device component); logically associating said further ones of said

plurality of device components (Fig.2, video I/O component, audio I/O component) with

one another as a second aggregate logical device (col.7, lines 45-50); maintaining a

second logical model of said second aggregate logical device (Fig.1 shows second logical

model); and providing access to said data network service by representing said further

ones of said plurality of device components to said data network service as said second

aggregate logical device (Fig.1).

26.   As to claim 27, Carter teaches the invention as claimed, wherein said

providing comprises: converting an indication of a change in a state of said logical model

of said aggregate logical device into a request of said data network service and sending

said request to said data network service (Fig.1 sending request to data network service).

27.   As to claim 28, Carter teaches the invention as claimed, wherein said

providing comprises: receiving a response to said request of said data network service (;

generating an interpretation of said response; and providing instructions, based on said

interpretation, to change said state of said logical model of said aggregate logical device
(col.2, lines 45-50).

28.   As to claim 29, Carter teaches the invention as claimed, wherein said response
comprises a media flow and, responsive to said interpretation of said response, said
communicating further comprises sending said media flow to a given device component
of said plurality of device components (Fig.2, video I/O component, audio I/O
component).

29.   As to claim 30 Carter teaches the invention as claimed, wherein said
generating said interpretation further comprises, before said sending, converting said
media flow from a format in which said media flow was received to a format understood
by said given device component of said plurality of device components (Fig.2, video I/O
component, audio I/O component).

30.   As to claim 31, Carter teaches the invention as claimed, wherein said response
comprises a data file and, responsive to said interpretation of said response, said
communicating further comprises sending said data file to a given device component of
said plurality of device components (Fig.2, video I/O component, audio I/O component).

31.   As to claim 32, Carter teaches the invention as claimed, wherein said
generating said interpretation further comprises, before said sending, converting said data
from a format in which said data file was received to a format understood by said given
device component of said selection of said plurality of device (Fig.2, video I/O
component, audio I/O component).

32.   As to claim 33, Carter teaches the invention as claimed, wherein sending said

request to said data network service further comprises instructing said data network

service to direct a response to a given device component of said selection of said plurality

of device components (Fig.2, video I/O component, audio I/O component).

33.   As to claim 34, Carter teaches the invention as claimed, wherein said

aggregate logical device comprises a logical device element corresponding to each of said

plurality of device components (Fig.2, video I/O component, audio I/O component); and

wherein a given logical device element corresponds to a particular device component and

a device type of said given logical device element is different from a device type of said

particular device component (Fig.1 shows communicating device component).

34.   As to claim 35, Carter teaches the invention as claimed, wherein said device

type of said logical device element is "pointing device" and said device type of said

particular device component is "microphone" (col.4, lines 45-50).

35.   As to claim 36, Carter teaches the invention as claimed, further comprising

using speech recognition to convert a message received from said "microphone" device

type to a state change of said "pointing device" device type (col.4, 55-65).

36.   As to claim 37, Carter teaches the invention as claimed, including a network

intelligence for providing device control to said plurality of device components (Fig.2,

video I/O component, audio I/O component), said network intelligence comprising; a

message driver for communicating with plurality of device components (Fig.2, video I/O

component, audio I/O component) (*shows every component must have a message driver

to be able to communicate*) a resource context manager for: logically associating said

plurality of device components (Fig.2, video I/O component, audio I/O component) in an

aggregate logical device (Fig.1 communicating with device component) (col.7, lines 45-

50); maintaining a logical model of said aggregate logical device (Fig.4 shows logical model of aggregate logical device, and col.7, lines 39-49) wherein a state of each device component within said aggregate logical device is maintained [see fi.g4, col.7, lines 16-62] *(controlling computer application such as user has moved mouse, communication established, share mode selected)*; and a service adapter for representing said plurality of device components (Fig.2, video I/O component, audio I/O component) to said data network service as said aggregate logical device to provide access to said data network service (Fig.3, col.4, lines 57-64, and col.5, lines 20-45).

37.   As to claim 38, Carter teaches the invention as claimed, including a computer readable medium containing computer-executable instructions which, when performed by a processor in a network intelligence for providing device control to plurality of device components (Fig.2, video I/O component, audio I/O component), cause the processor to: communicate with plurality of device components (Fig.2, video I/O component, audio I/O component), [col.7, lines 45-50] *(shows device components communicate with each others); in an aggregate logical device)*; logically associate said plurality of device components (Fig.2, video I/O component, audio I/O component) in an aggregate logical device (Fig.1 communicating with device component) (col.7, lines 45-50) in an aggregate logical device; maintain a logical model of said aggregate logical device (Fig.4 shows logical model of aggregate logical device, and col.7, lines 39-49); represent said to plurality of device components (Fig.2, video I/O component, audio I/O component), to said data network service as said aggregate logical device to provide access to said data network service (Fig.2, col.4, lines 57-64, and col.5, lines 20-45), wherein a state of each device component within said aggregate logical device is maintained [see fi.g4, col.7,

lines 16-62] (*controlling computer application such as user has moved mouse,*

communication established, share mode selected).

38.   As to claim 44, Carter teaches the invention as claimed, including a method of

providing device control to at least one device component, said device control enabling

interaction of a stand-alone service with said at least one device component, said method

comprising: communicating with said at least one device component (Fig.1 shows device

components communicate with each others); logically associating a plurality of device

components, said plurality of device component within said aggregate logical device is

maintained (Fig.2, video I/O component, audio I/O component) (col.7, lines 45-50);

maintaining a logical model of said aggregate logical device (Fig.4 shows logical model

of aggregate logical device, and col.7, lines 39-49) wherein a state of each device

component within said aggregate logical device is maintained [see fi.g4, col.7, lines 16-

62] (*controlling computer application such as user has moved mouse, communication*

established, share mode selected); and providing access to said stand-alone service by

representing said selection of said plurality of device components (Fig.2, video I/O

component, audio I/O component) to said stand-alone service as said aggregate logical

device (Fig.2, col.4, lines 57-64, and col.5, lines 20-45).

39.   As to claim 45, Carter teaches the invention as claimed, including a method of

providing device control to at least one device component, said device control enabling

interaction of a data network service with said at least one device component, and method

comprising: computing with said at least one device component, wherein said

communicating uses a stimulus message format and employs the Session Initiation

Protocol (SIP) (Fig.1 shows device components communicate with each others); logically

associating plurality of device components (Fig.2, video I/O component, audio I/O

component) in an aggregate logical device, said plurality of device of device components

including said at least one device component (col.7, lines 45-50); maintaining a logical

model of said aggregate logical device (Fig.4 shows logical model of aggregate logical

device, and col.7, lines 39-49) wherein a state of each device component within said

aggregate logical device is maintained [see fi.g4, col.7, lines 16-62] (*controlling*

computer application such as user has moved mouse, communication established, share

mode selected); and providing access to said data network service by representing said

plurality of device components (Fig.2, video I/O component, audio I/O component) to

said data network service by representing to said data network service as said aggregate

logical device (Fig.2, col.4, lines 57-64, and col.5, lines 20-45).

Claim Rejections - 35 USC § 103

40.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

41.   Claims 5, 10,16, 46, and 47 are rejected under 35 U.S.C. 103(a) as

being unpatentable over Carter et al., (hereinafter Carter) U.S. Patent No. 6,266,782 in

view of Marchetti et al., (hereinafter Marchetti) U.S. Patent No. 6,618,398.

42.   As to claim 5, Carter does not teach stimulus message format employs the

Session initiation Protocol (SIP). However, Marchetti teaches stimulus message format

employs the Session initiation Protocol (SIP) (col.3, lines 30-40). It would have been

obvious to one of ordinary skill in the art at the time of the invention was made to

combine the teaching of Carter and Marchetti have a Session initiation Protocol (SIP)

because it would be useful to have a session of activity that a user with a unique IP

address spends on a Web site.

43.   As to claim 10, Carter does not teach encapsulating a message destined for a

server of said data network service to result in an encapsulated message; and sending said

encapsulated message to at least one of said selection of said least one device component

of forwarding to said server of said data network service. However Marchetti teaches

encapsulating a message destined for a server of said data network service to result in an

encapsulated message; and sending said encapsulated message to at least one of said

plurality of device components (Fig.2, video I/O component, audio I/O component) for

forwarding to server of said data network service (See Fig.1, and col.3, line30 to col.4,

line 57). It would have been obvious to one of ordinary skill in the art at the time of the

invention was made to combine the teaching of Carter and Marchetti have a

encapsulating a message because it would be useful to provide a address resolution in an

asymmetrical wireless communication network (see Marchatti col.3, lines 17-48).

44.   As to claim 16, Carter does not teach receiving an encapsulated message,

containing a message from a server of said data network service, from at least one of said

plurality of device components (Fig.2, video I/O component, audio I/O component);

de-encapsulating said encapsulated message for forwarding to said first data network

service adapter application. However, Marchetti teach receiving an encapsulated

message, containing a message from a server of said data network service, from at least

one of said selection of said at least one device component; and de-encapsulating said

encapsulated message for forwarding to said first data network service adapter

application (See Fig.1, and col.3, line30 to col.4, line 57, and col.5, lines 7 –65). It would

have been obvious to one of ordinary skill in the art at the time of the invention was made

to combine the teaching of Carter and Marchetti have a encapsulating a message because

it would be useful to provide a address resolution in an asymmetrical wireless

communication network (see Marchatti col.3, lines 17-48).

45.   As to claim 46, Carter teaches the invention as claimed, including a method of

providing device control to at least one device component, said device control enabling

interaction of a data network service with said at least one device component, and method

comprising: communicating with said a plurality of components (Fig.1 shows device

components communicate with each others); logically associating a plurality of device

components (Fig.2, video I/O component, audio I/O component) in an aggregate logical

device, said plurality of device components including said at least one device component

(col.7, lines 45-50); maintaining a logical model of said aggregate logical device (Fig.4

shows logical model of aggregate logical device, and col.7, lines 39-49) wherein a state

of each device component within said aggregate logical device is maintained [see fi.g4,

col.7, lines 16-62] (*controlling computer application such as user has moved mouse,*

communication established, share mode selected); and providing access to said data

network service by representing said plurality of components (Fig.2, video I/O

component, audio I/O component) to said data network service as said aggregate logical

device (Fig.2, col.4, lines 57-64, and col.5, lines 20-45).

Also, Carter does not explicitly teach encapsulating a message destined for a server of

said data network service to result in an encapsulated message, and sending said

encapsulated message to at least one of said selection of said at least one device

component for forwarding to said server of said data network service. However

Marchetti teaches encapsulating a message destined for a server of said data network

service to result in an encapsulated message; and sending said encapsulated message to at

least one of said selection of said least one device component of forwarding to said server

of said data network service (See Fig.1, and col.3, line30 to col.4, line 57). It would have

been obvious to one of ordinary skill in the art at the time of the invention was made to

combine the teaching of Carter and Marchetti have a encapsulating a message because it

would be useful to provide a address resolution in an asymmetrical wireless

communication network (see Marchatti col.3, lines 17-48).

46.   As to claim 47, Carter teaches the invention as claimed, including a method of

providing device control to at least one device component, said device control enabling

interaction of a data network service with said at least one device component, and method

comprising: communicating with said at least one device component; logically

associating plurality of components in an aggregate logical device, said plurality of

device components (Fig.2, video I/O component, audio I/O component) including said at

least one device component (Fig.1 shows device components communicate with each

others); maintaining a logical model of said aggregate logical device (col.7, lines 45-50)

wherein a state of each device component within said aggregate logical device is

maintained [see fi.g4, col.7, lines 16-62] (*controlling computer application such as user has moved mouse, communication established, share mode selected*); and providing access to said data network service by representing said plurality of device components (Fig.2, video I/O component, audio I/O component) said data network service as said aggregate logical device (Fig.4 shows logical model of aggregate logical device, and col.7, lines 39-49); wherein said data network service is a first data network service (Fig.2, col.4, lines 57-64, and col.5, lines 20-45); wherein said providing further comprises, executing a first data network service adapter application corresponding to a server of said first data network service (Fig.1 server 17), and logically associating said first data network service adapter application with said aggregate logical device (see col.4, lines 40-45).

Also, Carter does not explicitly teaches receiving an encapsulated message, containing a message from a server of said data network service, from at least one of said selection of said at least one device component, and de-encapsulating said encapsulated message for forwarding to said first data network service adapter application. However, Marchetti teach receiving an encapsulated message, containing a message from a server of said data network service, from at least one of said selection of said at least one device component; and de-encapsulating said encapsulated message for forwarding to said first data network service adapter application (See Fig.1, and col.3, line30 to col.4, line 57, and col.5, lines 7 –65). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teaching of Carter and Marchetti have a encapsulating a message because it would be useful to provide a address resolution in an asymmetrical wireless communication network (see Marchatti col.3, lines 17-48).

Response to Arguments

47.   Applicant's arguments filled on March 27, 2007 have been fully considered,

however they are not persuasive because of the following reasons:

48.   Applicants argue that there does not seem to be any description similar to

Applicant's amended claim language of " wherein a state of each device component

within said aggregate logical device is maintained". In response to Applicant's argument,

the Patent Examiner maintains the rejection because Carter does teach wherein a state of

each device component within said aggregate logical device is maintained as shown in

fi.g4, col.7, lines 16-62 (*controlling computer application such as user has moved mouse,*

communication established, share mode selected). Carter clearly shows that a state of

each device component within said aggregate logical device is maintained.

49.   Therefore, the Examiner asserts that cited prior arts teach or suggest the

subject matter broadly recited in independent claims 1, and 37-38, 44-47. Claims 3-17,

18-36 are also rejected at least by the virtue of their dependency on independent claims

and by other reasons set forth in the previous office action [see paper no. 12].

50.   Accordingly, claims 1-2, 4-17, 19-38, and 44-47 are respectfully rejected.

Conclusion

51.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension

of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

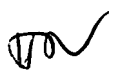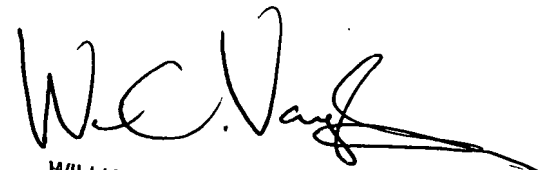TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

advisory action. In no event, however, will the statutory period for reply expire later than

SIX MONTHS from the mailing date of this final action.

52.   Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Tammy T. Nguyen whose telephone number is 571-

272-3929. The examiner can normally be reached on Monday - Friday 8:30 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, *William Vaughn* can be reached on 571-272-3922. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 15, 2007

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